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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,567	09/05/2006	Joern Borgert	2004P00610WOUS	7279
24737 7590 09/27/2011 PHILIPS INTELLECTUAL PROPERTY & STANDARDS		EXAMINER		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			GUPTA, VANI	
DNIARCLITT	MARCLIT MANOR, NT 10310		ART UNIT	PAPER NUMBER
			3777	
			NOTIFICATION DATE	DELIVERY MODE
			09/27/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

vera.kublanov@philips.com debbie.henn@philips.com marianne.fox@philips.com

	Application No.	Applicant(s)				
Office Action Cumment	10/598,567	BORGERT ET AL.				
Office Action Summary	Examiner	Art Unit				
	VANI GUPTA	3777				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 Ju	iv 2011					
,	action is non-final.					
· <u> </u>		set forth during the	e interview on			
•	An election was made by the applicant in response to a restriction requirement set forth during the interview on; the restriction requirement and election have been incorporated into this action.					
	•					
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance man are practice and a	x parte quayre, 1000 0.5. 11, 10	, o o.a. 210.				
Disposition of Claims						
5) Claim(s) 1.2 and 5-14 is/are pending in the app	lication.					
5a) Of the above claim(s) is/are withdraw	5a) Of the above claim(s) is/are withdrawn from consideration.					
6) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
7)⊠ Claim(s) <u>1,2 and 5-14</u> is/are rejected.	☑ Claim(s) <u>1,2 and 5-14</u> is/are rejected.					
8) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
9) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
10) The specification is objected to by the Examiner	1 .					
11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	ected to. See 37 CI	FR 1.121(d).			
12) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 9, 2011 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 5 9, and 11 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Haim et al. (US 2002/0013615 A1).

Regarding Claim 1, *Haim et al.* (hereinafter *Haim*) discloses a catheter apparatus for therapy, such as therapeutic occlusion of an area of a heart, the catheter apparatus comprising: a catheter (*figs. 1A and 1B*, (20)) configured (i.e., comprises a hallow needle (24) at catheter's distal end (22)) to inject a filling material into the aneurysm. See also paragraphs [0018], [0098 – 0099].

Haim suggests also *active* locators (32, 34) located at the tip of the catheter that is configured to provide coordinates to determine spatial position and orientation of the catheter ([0104]).

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There is also a pump ("dispenser," (54)) configured to controllably supply filling material to the catheter ([0020], [0038], [0108 - 0109], [0119]).

Haim suggest also a monitor ("contact or pressure sensor," (36)) connected to the active locator and the pump, wherein the monitor is configured to monitor the spatial position and/or orientation of the catheter to detect emergence of the tip of the catheter from the aneurysm during the injection of the drug into the aneurysm by monitoring and/or ensuring that there is contact between a pressure sensor and region of interest; and configured to stop the supply of the drug in response to the detected emergence (or non-contact) ([0105 – 0113]).

Regarding Claim 2, Haim suggests the catheter apparatus, wherein the active locator comprises a magnetic field sensor ([0021], [0023], [0104]).

Regarding claims 5 and 8, Haim suggests a catheter, a pump device and an electromagnetic locating device, and monitoring capabilities for monitoring the spatial position and/or orientation of the catheter based on the provided coordinates from the locator fitted on the tip of the catheter for detecting emergence of the catheter from the region of interest during injection of the filling material into the aneurysm, and thereupon stopping the supply of the drug (please see rejections of claims 1 and 2).

Regarding Claim 6, The apparatus as claimed in claim 5, wherein the monitoring unit comprises a memory having a road map stored therein ([0110]), and a recorder for recording the measured position of the locator using the road map ([0111]).

Regarding Claim 7, Haim discloses, via incorporation of *US 5,568,809* (paragraph [0105]), that the apparatus of Claim 5 comprises an imaging device, such as X-ray, NMR, ultrasound, etc. ('809: col. 3, lines 43 - 60 and col. 5, lines 31 - 38).

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Regarding Claim 9, Applicant should note that it would be inherent matter of design choice that if Haim discusses a locating device that works in conjunction with a magnetic field sensor device, then the locating device would comprise capabilities for generating an electromagnetic field for the magnetic field sensor to sense (see rejection of Claim 2). The generation of an electromagnetic field that is spatially and/or temporally inhomogeneous is commonplace, as is known in the art.

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Regarding Claim 11, Haim suggests a method of controlling the supply of a plugging material to a catheter employed in the therapeutic embolization of an aneurysm, the method comprising the acts of: determining a position and/or orientation of a tip of the catheter from coordinates provided by an active locator fitted thereon; automatically monitor the spatial position and/or orientation of the catheter based on the coordinates provided by the locator; and stopping the supply of the plugging material to the catheter if emergence of the catheter from the aneurysm is detected based on the monitored spatial position and/or orientation of the catheter (see rejections of claims 1, 2, 5, 8).

Regarding Claim 12, Haim teaches that the position of the locator is recorded using a road map of locator positions, the detecting of the emergence of the catheter from the aneurysm further being based on the road map (*see rejection of Claim 6*).

Regarding Claim 13, Haim et al. teaches, via incorporation of US 5,568,809 (mentioned in paragraph [0105]), that the catheter and the aneurysm are imaged together at the start of embolization, preferably by means of X-rays or with administration of a contrast agent ('809: col. 3, line 65 – col. 4, line 24). See also rejection of claim 7.

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Regarding Claim 14, Haim teaches that the navigation of the catheter in the vascular system is assisted by determining the position of the active locator, as discussed in the rejection of Claim 11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haim as applied to claim 5 above, and further in view of Pritchard et al. (US 2005/0220882 A1).

Regarding Claim 10, Haim teaches each and every limitation of the claim, as discussed above in reference to claim 5.

However, Haim differs from Claim 5 in that Haim does not teach that the plugging material can comprise a curable polymer material, plastic beads, a plastic coil, a hydrogel and/or a fibrin sponge.

Nonetheless, Pritchard et al. teaches that a plugging material may comprise a hydrogel in a particular shape of form "for plugging a void." Pritchard et al. suggests also that other materials art equivalent to the aforementioned materials (such as "plugs, tampons, packing strips, sheets, particles, spheres, blocks, cubes, cylinders, and cones") may be used.

Accordingly, it would have been obvious to one of ordinary skill in the art, having the teachings of Haim and Pritchard et al. before one at the time the invention was made, to modify

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the device for injecting filling material of Haim with the filling material teachings of Pritchard et al. to provide user flexibility in type of materials used.

Response to Arguments

4. Applicant's arguments, see p. 8, paragraph 1, filed July 11, 2011, with respect to the rejection(s) of claim(s) 1, 2, 5 -14 under Cragg and Eick have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Haim et al. (Us 2002/0013615 A1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VANI GUPTA whose telephone number is (571)270-5042. The examiner can normally be reached on Monday - Thursday (8:30 am - 6:00 pm; EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert (Tse) Chen can be reached on 571-272-3672. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. G./ Examiner, Art Unit 3777 /Tse Chen/ Supervisory Patent Examiner, Art Unit 3777